

WHAT IS CLAIMED IS:

1. An excitation coil unit for use in an image heating apparatus, comprising:

a coil including a conductor without an
5 insulation covering; and
a heat-resistant insulating material covering said coil.

2. An excitation coil unit according to claim 1,
10 further comprising an insulating spacer mounted on said coil, wherein the insulating spacer prevents contacting parts of the conductors in said coil mutually.

15 3. An excitation coil unit according to claim 1, wherein said heat-resistant insulating material is made by being poured around said coil and then hardened.

20 4. An excitation coil unit according to claim 3, wherein said heat-resistant insulating material is a resinous material.

25 5. An excitation coil unit according to claim 3, wherein said heat-resistant insulating material is a glass.

6. An excitation coil unit according to claim 3,
further comprising a holder which accommodates
said coil and is integrated by said heat-resistant
insulating material.

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7. An excitation coil unit according to claim 1,
wherein said coil is obtained by press working
a metal plate.

10 8. An excitation coil unit for use in an image
heating apparatus, comprising:

a coil formed with a conductor without an
insulation covering; and

an insulating spacer so mounted on said coil,
15 wherein said insulating spacer prevents contacting
parts of the conductors in said coil mutually.

9. An excitation coil unit according to claim 8,
further comprising a holder for accommodating
20 said coil on which said insulating spacer is mounted.

10. An image heating apparatus comprising:
a conductive rotatable member; and
an excitation coil unit for generating a
25 magnetic field to induce an eddy current in said
conductive rotatable member,

wherein said excitation coil unit includes a

coil formed with a conductor without an insulation covering and said coil is covered by a heat-resistant insulating material.

5 11. An image heating apparatus according to claim 10,

 wherein said excitation coil unit includes an insulating spacer mounted on said coil, wherein said insulating spacer prevents contacting parts of the
10 conductors in said coil mutually.

 12. An image heating apparatus according to claim 10,

 wherein said heat-resistant insulating material
15 is made by being poured around said coil and then hardened.

 13. An image heating apparatus according to claim 12,

20 wherein said heat-resistant insulating material is a resinous material.

 14. An image heating apparatus according to claim 12,

25 wherein said heat-resistant insulating material is a glass.

15. An image heating apparatus according to ,
claim 12,

wherein said excitation coil unit includes a
holder which accommodates said coil and is integrated
5 by said heat-resistant insulating material.

16. An image heating apparatus according to
claim 10,

wherein said coil is obtained by press working
10 a metal plate.